

DERWENT-ACC-NO: 1990-268968  
DERWENT-WEEK: 199903  
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*NO Sulfur!*

TITLE: Tyre sidewalls with increased stability - consists of  
polydiene rubber  
crosslinked with vulcanising agents which form  
1,2-di:thio-alkane-di:yl bridges

INVENTOR: HORPEL, G; NORDSIEK, K H ; ZERPNER, D ; HOERPEL, G  
; NORDSIEK, K

PATENT-ASSIGNEE: CHEM WERKE HUELS AG [CHEM], HUELS AG [CHEM]

PRIORITY-DATA: 1989DE-3906126 (February 28, 1989) ,  
1989DE-3941085 (December  
13, 1989)

PATENT-FAMILY:

PUB-NO		PUB-DATE	LANGUAGE
PAGES	MAIN-IPC		
DE 3941085	A	August 30, 1990	N/A
010	N/A		
JP 2834585	B2	December 9, 1998	N/A
022	C08L 021/00		
EP 385073	A	September 5, 1990	N/A
000	N/A		
JP 02269749	A	November 5, 1990	N/A
000	N/A		
BR 9000870	A	February 13, 1991	N/A
000	N/A		
EP 432405	A	June 19, 1991	N/A
000	N/A		
JP 04091145	A	March 24, 1992	N/A
027	N/A		
EP 432405	B1	April 5, 1995	G
013	B60C 001/00		
DE 59008849	G	May 11, 1995	N/A
000	B60C 001/00		
EP 385073	B1	June 14, 1995	G
000	C08L 021/00		
ES 2070237	T3	June 1, 1995	N/A
000	B60C 001/00		
DE 59009222	G	July 20, 1995	N/A
000	C08L 021/00		
ES 2072924	T3	August 1, 1995	N/A

000 C08L 021/00  
 JP 2792992 B2 September 3, 1998 N/A  
 006 C08L 009/00

DESIGNATED-STATES: AT BE CH DE ES FR GB IT LI LU NL SE AT BE  
 CH DE ES FR GB IT L  
 I LU NL SE AT BE CH DE ES FR GB IT LI LU NL SE AT BE CH DE ES  
 FR GB IT LI LU NL  
 SE

CITED-DOCUMENTS: DE 2265382; NoSR.Pub ; EP 385073

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
DE 3941085A	N/A	1989DE-3941085
December 13, 1989		
JP 2834585B2	N/A	1990JP-0400850
December 7, 1990		
JP 2834585B2	Previous Publ.	JP 4091145
N/A		
EP 385073A	N/A	1990EP-0100693
January 13, 1990		
JP 02269749A	N/A	1990JP-0046016
February 28, 1990		
EP 432405A	N/A	1990EP-0119701
October 15, 1990		
JP 04091145A	N/A	1990JP-0400850
December 7, 1990		
EP 432405B1	N/A	1990EP-0119701
October 15, 1990		
DE 59008849G	N/A	1990DE-0508849
October 15, 1990		
DE 59008849G	N/A	1990EP-0119701
October 15, 1990		
DE 59008849G	Based on	EP 432405
N/A		
EP 385073B1	N/A	1990EP-0100693
January 13, 1990		
ES 2070237T3	N/A	1990EP-0119701
October 15, 1990		
ES 2070237T3	Based on	EP 432405
N/A		
DE 59009222G	N/A	1990DE-0509222
January 13, 1990		
DE 59009222G	N/A	1990EP-0100693
January 13, 1990		

DE 59009222G	Based on	EP 385073
N/A		
ES 2072924T3	N/A	1990EP-0100693
January 13, 1990		
ES 2072924T3	Based on	EP 385073
N/A		
JP 2792992B2	N/A	1990JP-0046016
February 28, 1990		
JP 2792992B2	Previous Publ.	JP 2269749
N/A		

INT-CL (IPC): B60C001/00; B60C013/00 ; C08K005/37 ;  
 C08K005/39 ;  
 C08L007/00 ; C08L009/00 ; C08L021/00



ABSTRACTED-PUB-NO: DE 3941085A

BASIC-ABSTRACT: Sidewall (I) for motor vehicle tyres is obtd. by vulcanisation

of mixts. contg. polydiene rubbers (II), vulcanising agents (III) and the usual additives; the novelty is that the network is formed by means of 1,2-dithioalkanediyl bridges with 2-6C atoms.

Pref. (III) is a bis-thiocarbamoyl cpd of formula Et2N-CS-S-(CH2)n-S-S-CS-NEt2 (with n=2-6, pref. 2), or 1,2-bis(N,N-dibenzylthiocarbamoyl disulphide)-ethane.

*Vulcanizing agent for sidewalls*

ADVANTAGE - (I) has excellent flexibility, excellent resistance to ageing and weathering, excellent mechanical and dynamic properties, no discolouration, and high resistance to cracking due to prolonged usage or extreme short-term loading.

ABSTRACTED-PUB-NO: EP 432405B

EQUIVALENT-ABSTRACTS: A process for preparing side-wall vulcanisates for motor vehicle tyres, contg. vulcanising agents and conventional additives in addn. to polydiene rubbers, characterised in that the polydiene rubbers NR, IR, E-SBR, vinyl-SBR, cis-BR and vinyl-BR and their scrap are crosslinked using 1,2-bis(N,N-dibenzylthiocarbamoyl disulphido) ethane.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS:

TYRE SIDEWALL INCREASE STABILISED POLYDIENE RUBBER CROSSLINK  
VULCANISATION

AGENT FORM DI THIO ALKANE DI YL BRIDGE

DERWENT-CLASS: A12 A95 E14 E16 Q11

CPI-CODES: A04-B01E; A08-C04; A12-T01; E10-A04A;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

G010 G019 G100 K0 K2 K223 K299 L4 L410 L440

L499 M210 M212 M273 M280 M283 M311 M312 M313 M314

M315 M321 M323 M332 M342 M373 M383 M391 M393 M414

M416 M510 M520 M533 M540 M620 M781 M903 M904 Q132

R038

Markush Compounds

199036-A3901-U

Registry Numbers

1327U 0502U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0122U; 1520U ; 5085U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0009 0037 0218 0183 0226 0231 0306 3159 1059

1060 1095 1987 2020

2198 2199 2207 2217 2301 2302 2312 2315 2333 2493 2589 2597

2599 2605 2614 2615

2620 2622 2623 2625 2628 2634 2635 2657 2826 3300

Multipunch Codes: 014 02& 032 034 04- 040 055 056 075 08- 10-  
117 122 15- 231

247 250 257 27& 299 307 308 310 314 317 341 359 360 392 394

395 41& 473 48- 516

518 541 543 546 551 552 553 554 557 559 560 561 562 563 566

567 57& 572 573 597

598 672 688 724

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-116275

Non-CPI Secondary Accession Numbers: N1990-208190

	Type	Hits	Search Text	DBs
1	BRS	296	152/209.5	USPAT
2	BRS	242355	(motorcycle or two) and (base or cap)	EPO; JPO; DERWENT
3	BRS	1789	((motorcycle or two) and (base or cap)) and (tire or tyre)	EPO; JPO; DERWENT
4	BRS	100	((motorcycle or two) and (base or cap)) and (tire or tyre) and motorcycle	EPO; JPO; DERWENT
5	BRS	1233	(cap or base) and motorcycle	EPO; JPO; DERWENT
6	BRS	1233	((cap or base) and motorcycle) not (lead adj base)	EPO; JPO; DERWENT
7	BRS	1209	((cap or base) and motorcycle) not (bead adj base)	EPO; JPO; DERWENT
8	BRS	34	((cap or base) and motorcycle) not (bead adj base) and (cap and base)	EPO; JPO; DERWENT
9	BRS	380	cap and base and motorcycle	USPAT
10	BRS	127	(cap and base and motorcycle) and (cap same base)	USPAT
11	BRS	16	(cap and base and motorcycle) and (cap same base) and tire	USPAT
12	BRS	4762	b60c011/00	EPO; JPO; DERWENT
13	BRS	363	b60c011/00 and cap and base	EPO; JPO; DERWENT
14	BRS	0	spiral and motorcycle	EPO; JPO; DERWENT
15	BRS	92	spiral and motorcycle	EPO; JPO; DERWENT
16	BRS	1	vulcuren and tire	USPAT
17	BRS	0	vulcuren	EPO; JPO; DERWENT
18	BRS	3	carbamoylethio	USPAT
19	BRS	0	carbamoylethio	EPO; JPO; DERWENT
20	BRS	963	thiocarbamoyl	EPO; JPO; DERWENT
21	BRS	6	thiocarbamoyl and tire	EPO; JPO; DERWENT
22	BRS	26	thiocarbamoyl and rubber	EPO; JPO; DERWENT
23	BRS	20	(thiocarbamoyl and rubber) not (thiocarbamoyl and tire)	EPO; JPO; DERWENT
24	BRS	12	"5871600"	USPAT

	Type	Hits	Search Text	DBs
25	BRS	13	"1000968"	EPO; JPO; DERWENT
26	BRS	2	"5342900"	EPO; JPO; DERWENT
27	BRS	12	"5871600"	USPAT
28	BRS	885	525/332.7	USPAT
29	BRS	631	525/352	USPAT
30	BRS	163	152/517	USPAT
31	BRS	326	152/525	USPAT